NODE=M072

$\psi(4040)$

$I^G(J^{PC}) = 0^-(1^{--})$

$\psi(4040)$ MASS

NODE=M072M

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
4039 ± 1 OUR ESTIMATE				
4039.6± 4.3	[1] ABLIKIM	08D	BES2	$e^+e^- \to$ hadrons
• • • We do not use the following data for averages, fits, limits, etc. • • •				
4034 ± 6	[2] MO	10	RVUE	$e^+e^- \to$ hadrons
4037 ± 2	[3] SETH	05A	RVUE	$e^+e^- \to$ hadrons
4040 ± 1	[4] SETH	05A	RVUE	$e^+e^- \to$ hadrons
4040 ±10	BRANDELIK	78C	DASP	e^+e^-

NODE=M072M
→ UNCHECKED ←
OCCUR=2

[1] Reanalysis of data presented in BAI 02C. From a global fit over the center-of-mass energy region 3.7–5.0 GeV covering the $\psi(3770)$, $\psi(4040)$, $\psi(4160)$, and $\psi(4415)$ resonances. Phase angle fixed in the fit to $\delta = (130 \pm 46)^\circ$. NODE=M072M;LINKAGE=AB

[2] Reanalysis of data presented in BAI 00 and BAI 02C. From a global fit over the center-of-mass energy 3.8-4.8 GeV covering the $\psi(4040)$, $\psi(4160)$ and $\psi(4415)$ resonances and including interference effects. NODE=M072M;LINKAGE=MO

[3] From a fit to Crystal Ball (OSTERHELD 86) data. NODE=M072M;LINKAGE=ST

[4] From a fit to BES (BAI 02C) data. NODE=M072M;LINKAGE=SE

$\psi(4040)$ WIDTH

NODE=M072W

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
80 ±10 OUR ESTIMATE				
84.5±12.3	[5] ABLIKIM	08D	BES2	$e^+e^- \to$ hadrons
• • • We do not use the following data for averages, fits, limits, etc. • • •				
87 ±11	[6] MO	10	RVUE	$e^+e^- \to$ hadrons
85 ±10	[7] SETH	05A	RVUE	$e^+e^- \to$ hadrons
89 ± 6	[8] SETH	05A	RVUE	$e^+e^- \to$ hadrons
52 ±10	BRANDELIK	78C	DASP	e^+e^-

NODE=M072W
→ UNCHECKED ←
OCCUR=2

[5] Reanalysis of data presented in BAI 02C. From a global fit over the center-of-mass energy region 3.7–5.0 GeV covering the $\psi(3770)$, $\psi(4040)$, $\psi(4160)$, and $\psi(4415)$ resonances. Phase angle fixed in the fit to $\delta = (130 \pm 46)^\circ$. NODE=M072W;LINKAGE=AB

[6] Reanalysis of data presented in BAI 00 and BAI 02C. From a global fit over the center-of-mass energy 3.8-4.8 GeV covering the $\psi(4040)$, $\psi(4160)$ and $\psi(4415)$ resonances and including interference effects. NODE=M072W;LINKAGE=MO

[7] From a fit to Crystal Ball (OSTERHELD 86) data. NODE=M072W;LINKAGE=ST

[8] From a fit to BES (BAI 02C) data. NODE=M072W;LINKAGE=SE

$\psi(4040)$ DECAY MODES

NODE=M072215;NODE=M072

Due to the complexity of the $c\overline{c}$ threshold region, in this listing, "seen" ("not seen") means that a cross section for the mode in question has been measured at effective $\sqrt{s}$ near this particle's central mass value, more (less) than 2σ above zero, without regard to any peaking behavior in $\sqrt{s}$ or absence thereof. See mode listing(s) for details and references.

NODE=M072

	Mode	Fraction (Γ_i/Γ)	Confidence level	
Γ_1	e^+e^-	$(1.07\pm0.16)\times10^{-5}$		DESIG=5
Γ_2	$D\overline{D}$	seen		DESIG=17;OUR EST;→ UNCHECKED ←
Γ_3	$D^0\overline{D}^0$	seen		DESIG=1
Γ_4	D^+D^-	seen		DESIG=18
Γ_5	$D^*\overline{D}+$ c.c.	seen		DESIG=19;OUR EST;→ UNCHECKED ←
Γ_6	$D^*(2007)^0\overline{D}^0+$ c.c.	seen		DESIG=2
Γ_7	$D^*(2010)^+D^-+$ c.c.	seen		DESIG=20
Γ_8	$D^*\overline{D}^*$	seen		DESIG=21;OUR EST;→ UNCHECKED ←
Γ_9	$D^*(2007)^0\overline{D}^*(2007)^0$	seen		DESIG=3
Γ_{10}	$D^*(2010)^+D^*(2010)^-$	seen		DESIG=22
Γ_{11}	$D\overline{D}\pi$ (excl. $D^*\overline{D}$)			DESIG=23
Γ_{12}	$D^0D^-\pi^+$+c.c. (excl. $D^*(2007)^0\overline{D}^0$ +c.c., $D^*(2010)^+D^-$ +c.c.)	not seen		DESIG=24
Γ_{13}	$D\overline{D}^*\pi$ (excl. $D^*\overline{D}^*$)	not seen		DESIG=25

Γ_{14}	$D^0 \overline{D}^{*-} \pi^+$ +c.c. (excl. $D^*(2010)^+ D^*(2010)^-$)	seen			DESIG=26
Γ_{15}	$D_s^+ D_s^-$	seen			DESIG=27
Γ_{16}	$J/\psi(1S)$ hadrons				DESIG=4
Γ_{17}	$J/\psi \pi^+ \pi^-$	< 4	$\times 10^{-3}$	90%	DESIG=7
Γ_{18}	$J/\psi \pi^0 \pi^0$	< 2	$\times 10^{-3}$	90%	DESIG=8
Γ_{19}	$J/\psi \eta$	(5.2 ± 0.7)	$\times 10^{-3}$		DESIG=9
Γ_{20}	$J/\psi \pi^0$	< 2.8	$\times 10^{-4}$	90%	DESIG=10
Γ_{21}	$J/\psi \pi^+ \pi^- \pi^0$	< 2	$\times 10^{-3}$	90%	DESIG=11
Γ_{22}	$\chi_{c1} \gamma$	< 3.4	$\times 10^{-3}$	90%	DESIG=12
Γ_{23}	$\chi_{c2} \gamma$	< 5	$\times 10^{-3}$	90%	DESIG=13
Γ_{24}	$\chi_{c1} \pi^+ \pi^- \pi^0$	< 1.1	%	90%	DESIG=14
Γ_{25}	$\chi_{c2} \pi^+ \pi^- \pi^0$	< 3.2	%	90%	DESIG=15
Γ_{26}	$h_c(1P) \pi^+ \pi^-$	< 3	$\times 10^{-3}$	90%	DESIG=28
Γ_{27}	$\phi \pi^+ \pi^-$	< 3	$\times 10^{-3}$	90%	DESIG=16
Γ_{28}	$\Lambda \overline{\Lambda} \pi^+ \pi^-$	< 2.9	$\times 10^{-4}$	90%	DESIG=29
Γ_{29}	$\Lambda \overline{\Lambda} \pi^0$	< 9	$\times 10^{-5}$	90%	DESIG=30
Γ_{30}	$\Lambda \overline{\Lambda} \eta$	< 3.0	$\times 10^{-4}$	90%	DESIG=31
Γ_{31}	$\Sigma^+ \overline{\Sigma}^-$	< 1.3	$\times 10^{-4}$	90%	DESIG=32
Γ_{32}	$\Sigma^0 \overline{\Sigma}^0$	< 7	$\times 10^{-5}$	90%	DESIG=33
Γ_{33}	$\Xi^+ \overline{\Xi}^-$	< 1.6	$\times 10^{-4}$	90%	DESIG=34
Γ_{34}	$\Xi^0 \overline{\Xi}^0$	< 1.8	$\times 10^{-4}$	90%	DESIG=35
Γ_{35}	$\mu^+ \mu^-$				DESIG=6

$\psi(4040)$ PARTIAL WIDTHS

NODE=M072220

$\Gamma(e^+ e^-)$ — Γ_1

NODE=M072W5
NODE=M072W5

VALUE (keV)	DOCUMENT ID		TECN	COMMENT
0.86±0.07 OUR ESTIMATE				→ UNCHECKED ←
0.83±0.20	[9] ABLIKIM	08D	BES2	$e^+ e^- \to$ hadrons
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.6 to 1.4	[10] MO	10	RVUE	$e^+ e^- \to$ hadrons
0.88±0.11	[11] SETH	05A	RVUE	$e^+ e^- \to$ hadrons
0.91±0.13	[12] SETH	05A	RVUE	$e^+ e^- \to$ hadrons
0.75±0.15	BRANDELIK	78C	DASP	$e^+ e^-$

[9] Reanalysis of data presented in BAI 02C. From a global fit over the center-of-mass energy region 3.7–5.0 GeV covering the $\psi(3770)$, $\psi(4040)$, $\psi(4160)$, and $\psi(4415)$ resonances. Phase angle fixed in the fit to $\delta = (130 \pm 46)^\circ$. NODE=M072W5;LINKAGE=AB

[10] Reanalysis of data presented in BAI 00 and BAI 02C. From a global fit over the center-of-mass energy 3.8-4.8 GeV covering the $\psi(4040)$, $\psi(4160)$ and $\psi(4415)$ resonances and including interference effects. Four sets of solutions are obtained with the same fit quality, mass and total width, but with different $e^+ e^-$ partial widths. We quote only the range of values. NODE=M072W5;LINKAGE=MO

[11] From a fit to Crystal Ball (OSTERHELD 86) data. NODE=M072W5;LINKAGE=ST

[12] From a fit to BES (BAI 02C) data. NODE=M072W5;LINKAGE=SE

$\psi(4040)$ $\Gamma(i) \times \Gamma(e^+ e^-)/\Gamma(\text{total})$

NODE=M072235

$\Gamma(\chi_{c1}\gamma) \times \Gamma(e^+ e^-)/\Gamma_{total}$ — $\Gamma_{22}\Gamma_1/\Gamma$

NODE=M072G01
NODE=M072G01

VALUE (eV)	CL%	DOCUMENT ID		TECN	COMMENT
<2.9	90	[13] HAN	15	BELL	10.58 $e^+ e^- \to \chi_{c1}\gamma$

[13] Using B($\eta \to \gamma\gamma$) = (39.41 ± 0.21)%. NODE=M072G01;LINKAGE=A

$\Gamma(\chi_{c2}\gamma) \times \Gamma(e^+ e^-)/\Gamma_{total}$ — $\Gamma_{23}\Gamma_1/\Gamma$

NODE=M072G02
NODE=M072G02

VALUE (eV)	CL%	DOCUMENT ID		TECN	COMMENT
<4.6	90	[14] HAN	15	BELL	10.58 $e^+ e^- \to \chi_{c2}\gamma$

[14] Using B($\eta \to \gamma\gamma$) = (39.41 ± 0.21)%. NODE=M072G02;LINKAGE=A

$\psi(4040)$ $\Gamma(i) \times \Gamma(e^+e^-)/\Gamma^2(total)$

NODE=M072230

$\Gamma(J/\psi\eta)/\Gamma_{total} \times \Gamma(e^+e^-)/\Gamma_{total}$ — $\Gamma_{19}/\Gamma \times \Gamma_1/\Gamma$

NODE=M072R25
NODE=M072R25

VALUE (units 10^{-8})	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •				
$5.1 \pm 1.4 \pm 1.5$	[15] WANG	13B	BELL	$e^+e^- \to J/\psi\eta\gamma$
$12.8 \pm 2.1 \pm 1.9$	[16] WANG	13B	BELL	$e^+e^- \to J/\psi\eta\gamma$

OCCUR=2

[15] Solution I of two equivalent solutions in a fit using two interfering resonances. Mass and width fixed at 4039 MeV and 80 MeV, respectively. NODE=M072R25;LINKAGE=A

[16] Solution II of two equivalent solutions in a fit using two interfering resonances. Mass and width fixed at 4039 MeV and 80 MeV, respectively. NODE=M072R25;LINKAGE=B

$\psi(4040)$ BRANCHING RATIOS

NODE=M072225

$\Gamma(e^+e^-)/\Gamma_{total}$ — Γ_1/Γ

NODE=M072R4
NODE=M072R4

VALUE (units 10^{-5})	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •				
~ 1.0	FELDMAN	77	MRK1	e^+e^-

$\Gamma(D^0\overline{D}^0)/\Gamma_{total}$ — Γ_3/Γ

NODE=M072R14
NODE=M072R14

VALUE	DOCUMENT ID		TECN	COMMENT
seen	AUBERT	09M	BABR	$e^+e^- \to D^0\overline{D}^0\gamma$
seen	CRONIN-HEN..	09	CLEO	$e^+e^- \to D^0\overline{D}^0$
seen	PAKHLOVA	08	BELL	$e^+e^- \to D^0\overline{D}^0\gamma$

$\Gamma(D^+D^-)/\Gamma_{total}$ — Γ_4/Γ

NODE=M072R15
NODE=M072R15

VALUE	DOCUMENT ID		TECN	COMMENT
seen	AUBERT	09M	BABR	$e^+e^- \to D^+D^-\gamma$
seen	CRONIN-HEN..	09	CLEO	$e^+e^- \to D^+D^-$
seen	PAKHLOVA	08	BELL	$e^+e^- \to D^+D^-\gamma$

$\Gamma(D\overline{D})/\Gamma(D^*\overline{D}+c.c.)$ — Γ_2/Γ_5

NODE=M072R12
NODE=M072R12

VALUE	DOCUMENT ID		TECN	COMMENT
$0.24 \pm 0.05 \pm 0.12$	AUBERT	09M	BABR	$e^+e^- \to \gamma D^{(*)}\overline{D}$

$\Gamma(D^0\overline{D}^0)/\Gamma(D^*(2007)^0\overline{D}^0+c.c.)$ — Γ_3/Γ_6

NODE=M072R1
NODE=M072R1

VALUE	DOCUMENT ID		TECN	COMMENT
0.05 ± 0.03	[17] GOLDHABER	77	MRK1	e^+e^-

[17] Phase-space factor (p^3) explicitly removed. NODE=M072R;LINKAGE=P

$\Gamma(D^*(2007)^0\overline{D}^0+c.c.)/\Gamma_{total}$ — Γ_6/Γ

NODE=M072R16
NODE=M072R16

VALUE	DOCUMENT ID		TECN	COMMENT
seen	AUBERT	09M	BABR	$e^+e^- \to D^{*0}\overline{D}^0\gamma$
seen	CRONIN-HEN..	09	CLEO	$e^+e^- \to D^{*0}\overline{D}^0$

$\Gamma(D^*(2010)^+D^-+c.c.)/\Gamma_{total}$ — Γ_7/Γ

NODE=M072R17
NODE=M072R17

VALUE	DOCUMENT ID		TECN	COMMENT
seen	AUBERT	09M	BABR	$e^+e^- \to D^{*+}D^-\gamma$
seen	CRONIN-HEN..	09	CLEO	$e^+e^- \to D^{*+}D^-$
seen	PAKHLOVA	07	BELL	$e^+e^- \to D^{*+}D^-\gamma$

$\Gamma(D^*(2010)^+D^-+c.c.)/\Gamma(D^*(2007)^0\overline{D}^0+c.c.)$ — Γ_7/Γ_6

NODE=M072R11
NODE=M072R11

VALUE	DOCUMENT ID		TECN	COMMENT
$0.95 \pm 0.09 \pm 0.10$	AUBERT	09M	BABR	$e^+e^- \to \gamma D^*\overline{D}$

$\Gamma(D^*\overline{D}^*)/\Gamma(D^*\overline{D}+c.c.)$ — Γ_8/Γ_5

NODE=M072R13
NODE=M072R13

VALUE	DOCUMENT ID		TECN	COMMENT
$0.18 \pm 0.14 \pm 0.03$	AUBERT	09M	BABR	$e^+e^- \to \gamma D^{(*)}\overline{D}^{(*)}$

$\Gamma(D^*(2007)^0\overline{D}^*(2007)^0)/\Gamma_{total}$ — Γ_9/Γ

NODE=M072R18
NODE=M072R18

VALUE	DOCUMENT ID		TECN	COMMENT
seen	AUBERT	09M	BABR	$e^+e^- \to D^{*0}\overline{D}^{*0}\gamma$
seen	CRONIN-HEN..	09	CLEO	$e^+e^- \to D^{*0}\overline{D}^{*0}$

$\Gamma(D^*(2007)^0\overline{D}^*(2007)^0)/\Gamma(D^*(2007)^0\overline{D}^0+\text{c.c.})$ — Γ_9/Γ_6

NODE=M072R2
NODE=M072R2

VALUE	DOCUMENT ID		TECN	COMMENT
32.0±12.0	[18] GOLDHABER	77	MRK1	e^+e^-

[18] Phase-space factor (p^3) explicitly removed.

NODE=M072R2;LINKAGE=P

$\Gamma(D^*(2010)^+D^*(2010)^-)/\Gamma_{total}$ — Γ_{10}/Γ

NODE=M072R19
NODE=M072R19

VALUE	DOCUMENT ID		TECN	COMMENT
seen	AUBERT	09M	BABR	$e^+e^- \to D^{*+}D^{*-}\gamma$
seen	CRONIN-HEN..	09	CLEO	$e^+e^- \to D^{*+}D^{*-}$
seen	PAKHLOVA	07	BELL	$e^+e^- \to D^{*+}D^{*-}\gamma$

$\Gamma(D^0D^-\pi^+ +\text{c.c. (excl. } D^*(2007)^0\overline{D}^0+\text{c.c., } D^*(2010)^+D^- +\text{c.c.}))/\Gamma_{total}$ — Γ_{12}/Γ

NODE=M072R20
NODE=M072R20

VALUE	DOCUMENT ID		TECN	COMMENT
not seen	PAKHLOVA	08A	BELL	$e^+e^- \to D^0D^-\pi^+\gamma$

$\Gamma(D\overline{D}^*\pi(\text{excl. } D^*\overline{D}^*))/\Gamma_{total}$ — Γ_{13}/Γ

NODE=M072R21
NODE=M072R21

VALUE	DOCUMENT ID		TECN	COMMENT
not seen	CRONIN-HEN..	09	CLEO	$e^+e^- \to D\overline{D}^*\pi$

$\Gamma(D^0\overline{D}^{*-}\pi^+ +\text{c.c. (excl. } D^*(2010)^+D^*(2010)^-))/\Gamma_{total}$ — Γ_{14}/Γ

NODE=M072R22
NODE=M072R22

VALUE	DOCUMENT ID		TECN	COMMENT
seen	PAKHLOVA	09	BELL	$e^+e^- \to D^0D^{*-}\pi^+\gamma$

$\Gamma(D_s^+D_s^-)/\Gamma_{total}$ — Γ_{15}/Γ

NODE=M072R23
NODE=M072R23

VALUE	DOCUMENT ID		TECN	COMMENT
seen	PAKHLOVA	11	BELL	$e^+e^- \to D_s^+D_s^-\gamma$
seen	DEL-AMO-SA..	10N	BABR	$e^+e^- \to D_s^+D_s^-\gamma$
seen	CRONIN-HEN..	09	CLEO	$e^+e^- \to D_s^+D_s^-$

$\Gamma(J/\psi\pi^+\pi^-)/\Gamma_{total}$ — Γ_{17}/Γ

NODE=M072R01
NODE=M072R01

VALUE (units 10^{-3})	CL%	DOCUMENT ID		TECN	COMMENT
<4	90	COAN	06	CLEO	3.97–4.06 $e^+e^- \to$ hadrons

$\Gamma(J/\psi\pi^0\pi^0)/\Gamma_{total}$ — Γ_{18}/Γ

NODE=M072R02
NODE=M072R02

VALUE (units 10^{-3})	CL%	DOCUMENT ID		TECN	COMMENT
<2	90	COAN	06	CLEO	3.97–4.06 $e^+e^- \to$ hadrons

$\Gamma(J/\psi\eta)/\Gamma_{total}$ — Γ_{19}/Γ

NODE=M072R03
NODE=M072R03

VALUE (units 10^{-3})	CL%	DOCUMENT ID		TECN	COMMENT
5.2±0.5±0.5		[19] ABLIKIM	12K	BES3	$e^+e^- \to \ell^+\ell^-2\gamma$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<7	90	COAN	06	CLEO	3.97–4.06 $e^+e^- \to$ hadrons

[19] ABLIKIM 12K measure $\sigma(e^+e^- \to J/\psi\eta) = 32.1 \pm 2.8 \pm 1.3$ pb. They assume the $\eta J/\psi$ fully originates from $\psi(4040)$ decays.

NODE=M072R03;LINKAGE=AB

$\Gamma(J/\psi\pi^0)/\Gamma_{total}$ — Γ_{20}/Γ

NODE=M072R04
NODE=M072R04

VALUE (units 10^{-3})	CL%	DOCUMENT ID		TECN	COMMENT
<0.28	90	[20] ABLIKIM	12K	BES3	$e^+e^- \to \ell^+\ell^-2\gamma$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<2	90	COAN	06	CLEO	3.97–4.06 $e^+e^- \to$ hadrons

[20] ABLIKIM 12K measure $\sigma(e^+e^- \to J/\psi\pi^0)$ <1.6 pb. They assume the $\eta J/\psi$ fully originates from $\psi(4040)$ decays.

NODE=M072R04;LINKAGE=AB

$\Gamma(J/\psi\pi^+\pi^-\pi^0)/\Gamma_{total}$ — Γ_{21}/Γ

NODE=M072R05
NODE=M072R05

VALUE (units 10^{-3})	CL%	DOCUMENT ID		TECN	COMMENT
<2	90	COAN	06	CLEO	3.97–4.06 $e^+e^- \to$ hadrons

$\Gamma(\chi_{c1}\gamma)/\Gamma_{total}$ — Γ_{22}/Γ

NODE=M072R06
NODE=M072R06

VALUE (units 10^{-3})	CL%	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<11	90	COAN	06	CLEO	3.97–4.06 $e^+e^- \to$ hadrons

$\Gamma(\chi_{c2}\gamma)/\Gamma_{total}$ — Γ_{23}/Γ

NODE=M072R07
NODE=M072R07

VALUE (units 10^{-3})	CL%	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<17	90	COAN	06	CLEO	3.97–4.06 $e^+e^- \to$ hadrons

$\Gamma(\chi_{c1}\pi^+\pi^-\pi^0)/\Gamma_{total}$ — Γ_{24}/Γ

NODE=M072R08
NODE=M072R08

VALUE (units 10^{-3})	CL%	DOCUMENT ID		TECN	COMMENT
<11	90	COAN	06	CLEO	3.97–4.06 $e^+e^- \to$ hadrons

$\Gamma(\chi_{c2}\pi^+\pi^-\pi^0)/\Gamma_{total}$ — Γ_{25}/Γ

NODE=M072R09
NODE=M072R09

VALUE (units 10^{-3})	CL%	DOCUMENT ID		TECN	COMMENT
<32	90	COAN	06	CLEO	3.97–4.06 $e^+e^- \to$ hadrons

$\Gamma(h_c(1P)\pi^+\pi^-)/\Gamma_{total}$ — Γ_{26}/Γ

NODE=M072R24
NODE=M072R24

VALUE (units 10^{-3})	CL%	DOCUMENT ID		TECN	COMMENT
<3	90	[21] PEDLAR	11	CLEO	$e^+e^- \to h_c(1P)\pi^+\pi^-$

[21] From several values of $\sqrt{s}$ near the peak of the $\psi(4040)$, PEDLAR 11 measures $\sigma(e^+e^- \to h_c(1P)\pi^+\pi^-) = 1.0 \pm 8.0 \pm 5.4 \pm 0.2$ pb, where the errors are statistical, systematic, and due to uncertainty in $B(\psi(2S) \to \pi^0 h_c(1P))$, respectively.

NODE=M072R24;LINKAGE=PE

$\Gamma(\phi\pi^+\pi^-)/\Gamma_{total}$ — Γ_{27}/Γ

NODE=M072R10
NODE=M072R10

VALUE (units 10^{-3})	CL%	DOCUMENT ID		TECN	COMMENT
<3	90	COAN	06	CLEO	3.97–4.06 $e^+e^- \to$ hadrons

$\Gamma(\Lambda\overline{\Lambda}\pi^+\pi^-)/\Gamma_{total}$ — Γ_{28}/Γ

NODE=M072R26
NODE=M072R26

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<2.9	90	[22] ABLIKIM	13Q	BES3	$e^+e^- \to \psi(4040)$

[22] Assuming that interference effects between resonance and continuum can be neglected.

NODE=M072R26;LINKAGE=A

$\Gamma(\Lambda\overline{\Lambda}\pi^0)/\Gamma_{total}$ — Γ_{29}/Γ

NODE=M072R27
NODE=M072R27

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<0.9	90	[23] ABLIKIM	13Q	BES3	$e^+e^- \to \psi(4040)$

[23] Assuming that interference effects between resonance and continuum can be neglected.

NODE=M072R27;LINKAGE=A

$\Gamma(\Lambda\overline{\Lambda}\eta)/\Gamma_{total}$ — Γ_{30}/Γ

NODE=M072R28
NODE=M072R28

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<3.0	90	[24] ABLIKIM	13Q	BES3	$e^+e^- \to \psi(4040)$

[24] Assuming that interference effects between resonance and continuum can be neglected.

NODE=M072R28;LINKAGE=A

$\Gamma(\Sigma^+\overline{\Sigma}^-)/\Gamma_{total}$ — Γ_{31}/Γ

NODE=M072R29
NODE=M072R29

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<1.3	90	[25] ABLIKIM	13Q	BES3	$e^+e^- \to \psi(4040)$

[25] Assuming that interference effects between resonance and continuum can be neglected.

NODE=M072R29;LINKAGE=A

$\Gamma(\Sigma^0\overline{\Sigma}^0)/\Gamma_{total}$ — Γ_{32}/Γ

NODE=M072R30
NODE=M072R30

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<0.7	90	[26] ABLIKIM	13Q	BES3	$e^+e^- \to \psi(4040)$

[26] Assuming that interference effects between resonance and continuum can be neglected.

NODE=M072R30;LINKAGE=A

$\Gamma(\Xi^+\overline{\Xi}^-)/\Gamma_{total}$ — Γ_{33}/Γ

NODE=M072R31
NODE=M072R31

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<1.6	90	[27] ABLIKIM	13Q	BES3	$e^+e^- \to \psi(4040)$

[27] Assuming that interference effects between resonance and continuum can be neglected.

NODE=M072R31;LINKAGE=A

$\Gamma(\Xi^0\overline{\Xi}^0)/\Gamma_{total}$ — Γ_{34}/Γ

NODE=M072R32
NODE=M072R32

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<1.8	90	[28] ABLIKIM	13Q	BES3	$e^+e^- \to \psi(4040)$

[28] Assuming that interference effects between resonance and continuum can be neglected.

NODE=M072R32;LINKAGE=A

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